

WHAT IS CLAIMED IS:

1. A vehicle managing method comprising the steps of:

distributing music and/or image through a satellite to each of vehicles with which a contract for music distribution and/or image distribution has been made;

receiving periodic information on each of the contracted vehicles therefrom via the satellite and analyzing the received information for each vehicle; and,

transmitting the analysis information to a predetermined recipient of the analysis information.

2. A vehicle managing method comprising the steps of:

distributing through a satellite information in one category, or two or more categories, selected from among music, image, navigation, road and traffic, emergency, and new vehicle information categories to each of vehicles with which a contract for music distribution and/or image distribution has been made;

receiving periodic information on each of the contracted vehicles therefrom via the satellite and analyzing the received information for each vehicle; and,

2025 RELEASE UNDER E.O. 14176

transmitting the analysis information to a predetermined recipient of the analysis information.

3. A vehicle managing method according to claim 1 or 2, wherein the periodic information is on at least one of the position, speed, direction, and conditions of the vehicle.

4. A vehicle managing method according to claim 1 or 2, wherein emergency information concerning the vehicle is also transmitted in addition to the periodic information transmitted to the satellite from each of the contracted vehicles.

5. A vehicle managing method according to claim 1 or 2, wherein the recipient of the analysis information is selected from among groups of an insurance company, a road maintenance company, a supervisory agency, a governmental organization, a vehicle management company, a vehicle maintenance company, and a vehicle dealer.

6. A vehicle managing method according to any of claims 1 through 5, wherein the satellite is a non-geostationary satellite that is in an elliptic orbit.

7. A vehicle managing method according to claim 1, wherein the information transmitted from the vehicle at a periodic interval is stored in a storage medium at an

2025 RELEASE UNDER E.O. 14176

interval shorter than the periodic interval and the stored information is transmitted in a batch at the periodic interval.

8. A vehicle managing method comprising the steps of:

distributing music and/or image through a satellite to each of vehicles with which a contract for music distribution and/or image distribution has been made;

receiving periodic information on each of the contracted vehicles therefrom via the satellite and analyzing the received information for each vehicle; and

transmitting the analysis information to a predetermined recipient of the analysis information; wherein the periodic information comprises driving time data and via point data representing geographical points, areas, or routes through which the vehicle has traveled.

9. A vehicle managing method according to claim 1, 2, or 8, wherein vehicle position information is found and collected by using a signal reflected off an artificial satellite after the signal has been transmitted thereto through an antenna provided in a controlled vehicle, and information on a condition of each individual vehicle is collected by transmitting vehicle control information or

2025 RELEASE UNDER E.O. 14176

vehicle parts condition information from the controlled vehicle to the artificial satellite through the antenna provided in the controlled vehicle and receiving a signal reflected off the artificial satellite or by transmitting the information by way of DSRC (dedicated short range communication) or a mobile communications device including a cellular phone and receiving the transmitted signal.

10. A vehicle managing method according to claim 1, 2, or 8, wherein vehicle position information is found and collected by using a signal reflected off an artificial satellite after the signal has been transmitted thereto through an antenna provided in a controlled vehicle, information on a condition of each individual vehicle is collected by transmitting vehicle sensor information to the artificial satellite through the antenna provided in the controlled vehicle and receiving a signal reflected off the artificial satellite or by transmitting the information by way of DSRC (dedicated short range communication) or mobile communications device including a cellular phone and receiving the transmitted signal, and individual vehicle information is collected together with a vehicle model, serial number, and other vehicle body information as well as user information unique to the controlled vehicle

2025 RELEASE UNDER E.O. 14176

separately input.

11. A vehicle managing method according to claim 1, 2, or 8, wherein vehicle position information is found and collected by using a signal reflected off an artificial satellite after the signal has been transmitted thereto through an antenna provided in a controlled vehicle, information on a condition of each individual vehicle is collected by transmitting vehicle control information or vehicle parts condition information from the controlled vehicle to the artificial satellite through the antenna provided in the controlled vehicle and receiving a signal reflected off the artificial satellite or by transmitting the information by way of DSRC (dedicated short range communication) or a communications device including a cellular phone and receiving the transmitted signal, and individual vehicle information is collected by transmitting vehicle condition information extracted from a diagnostics system mounted in the controlled vehicle, based on a command issued by the diagnostics system to transmit diagnostics results information, from the controlled vehicle to the artificial satellite and receiving a signal reflected therefrom, together with vehicle body information including a vehicle model, serial number, as well as user

2025 RELEASE UNDER E.O. 14176

information unique to the controlled vehicle separately input.

12. A vehicle managing method according to claim 1, 2, or 8, wherein information on a condition of each individual vehicle is collected by transmitting vehicle control information or vehicle parts condition information from a controlled vehicle to an artificial satellite through an antenna provided in the controlled vehicle and receiving a signal reflected off the artificial satellite.

13. A vehicle managing method according to claim 1, 2, or 8, wherein information on a condition of each individual vehicle is collected by transmitting vehicle sensor information to an artificial satellite through an antenna provided in a controlled vehicle and receiving a signal reflected off the artificial satellite, and individual vehicle information is collected together with vehicle body information including a vehicle model, and serial number, as well as user information unique to the controlled vehicle separately input.

14. A vehicle managing method according to claim 1, 2, or 8, wherein information on a condition of each individual vehicle is collected by transmitting vehicle control information and vehicle parts condition information

2025 RELEASE UNDER E.O. 14176

from a controlled vehicle to an artificial satellite through an antenna provided in the controlled vehicle and receiving a signal reflected off the artificial satellite and by transmitting vehicle condition information extracted from a diagnostics system mounted in the controlled vehicle, based on a command issued by the diagnostics system to transmit diagnostics results information, from the controlled vehicle to the artificial satellite and receiving a signal reflected therefrom, together with vehicle body information including a vehicle model and serial number, as well as user information unique to the controlled vehicle separately input. To provide a vehicle overall interactive managing method by allowing vehicle information to be provided for an information requiring organization and, at the same time, providing a vehicle user with sound and image information.

2025 RELEASE UNDER E.O. 14176